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WHAT IS CLAIMED IS:

A golf ball comprising: 1.

a multi-layer core comprising a center component and a core layer disposed about said center component;

said wherein center component comprises a thermoset material and said core layer comprises а thermoset material; and,

a cover layer disposed about said multi-layer core;

wherein said cover layer includes at least one of 10 (i) a multi-layer cover comprising an inner cover layer having a Shore D hardness of 65 or greater and an outer cover layer having a Shore D hardness of 65 or less, said inner cover layer being harder than said outer cover layer, (ii) a multi-layer cover comprising an inner cover layer 15 having a Shore D hardness of 65 or less and an outer cover layer of 65 or greater, wherein said inner cover layer is softer than said outer cover layer, (iii) a single nonionomeric outer cover layer having a Shore D hardness of from about 40 to 80, and (iv) a single ionomeric outer cover layer having a Shore D hardness of at least 56. 20

- The golf ball of claim 1 wherein the outer cover 2. layer is selected from multi-layer cover (i) or multi-layer cover (ii).
- The golf ball of claim 1 wherein said thermoset material comprises a material selected from the group consisting of (i) a diene-containing polymer, (ii) a metallocene catalyzed polyolefin that is cross-linked, (iii) a polyurethane, (iv) a silicone, (v) a polyamide, (vi) a polyurea, and (vii) combinations thereof; and said thermoplastic material comprises a material selected from the group consisting of. (i) an ionomer, (ii) polyurethane, (iii) an elastomer, (iv) a polyetheramide,
- a polyetherester, (vi) a metallocene catalyzed 10 (V)

polyolefin, (vii) a styrene butadiene block copolymer, and (viii) combinations thereof.

- 4. The golf ball of claim 1 wherein said core layer comprises more than one layer.
- 5. The golf ball of claim 1 wherein said center component thermoset material comprises a polybutadiene rubber.
- 6. The golf ball of claim 5 wherein said thermoset polybutadiene rubber further comprises zinc diacrylate (ZDA).
- 7. The golf ball of claim 1 wherein said core layer thermoset material comprises polybutadiene rubber.
- 8. The golf ball of claim 7 wherein said polybutadiene rubber further comprises zinc diacrylate (ZDA).
- 9. The golf ball of claim 1 wherein said center component of said multi-layer core has an outer diameter of from about 1.340 inches to about 1.400 inches, and said core layer of said multi-layer core has an thickness of from about 0.020 to about 0.100 inches.
- 10. The golf ball of claim 1 wherein said center component of said multi-layer core is softer relative to said core layer.
- 11. The golf ball of claim 10 wherein said core layer has a Shore D hardness of at least 60.
- 12. The golf ball according to claim 1 wherein each layer in the multi-layer cover (i) and multi-layer cover

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- (ii) is independently formed from a thermoplastic resin, a thermoset resin, or a blend thereof.
- 13. The golf ball according to claim 2 wherein the multi-layer cover (i) or multi-layer cover (ii) comprises at least one ionomeric material.

14. A golf ball comprising:

a multi-layer core comprising a center component and a core layer disposed about said center component;

wherein said center component comprises a polybutadiene thermoset material and said core layer comprises a polybutadiene thermoset material; and,

a cover layer disposed about said multi-layer core;

wherein said cover layer includes at least one of (i) a multi-layer cover comprising an inner cover layer having a Shore D hardness of 65 or greater and an outer cover layer having a Shore D hardness of 65 or less, said inner cover layer being harder than said outer cover layer, (ii) a multi-layer cover comprising an inner cover layer having a Shore D hardness of 65 or less and an outer cover layer of 65 or greater, wherein said inner cover layer is softer than said outer cover layer, and (iii) a single non-ionomeric outer cover layer having a Shore D hardness of from about 40 to 80, and (iv) a single ionomeric outer cover layer having a Shore D hardness of at least 56.

- 15. The golf ball according to claim 14 wherein the cover layer is selected from multi-layer cover (i) or multi-layer cover (ii).
 - 16. The golf ball of claim 14 wherein said thermoset material further comprises zinc diacrylate (ZDA).
 - 17. The golf ball of claim 14 wherein said core layer comprises more than one layer.

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- 18. The golf ball of claim 14 wherein said center component of said dual core comprise is softer relative to said core layer.
- 19. The golf ball of claim 11 wherein said core layer has a Shore D hardness of at least 60.

20. A golf ball comprising:

a multi-layer core comprising a center component and a core layer disposed about said center component;

wherein said center component comprises a polybutadiene/ZDA thermoset material and said core layer comprises a polybutadiene/ZDA thermoset material; and,

a multi-layer, ionomeric cover layer disposed about said dual core;

wherein said cover layer includes at least one of (i) a multi-layer cover comprising an inner cover layer having a Shore D hardness of 65 or greater and an outer cover layer having a Shore D hardness of 65 or less, said inner cover layer being harder than said outer cover layer, and (ii) a multi-layer cover comprising an inner cover layer having a Shore D hardness of 65 or less and an outer cover layer of 65 or greater, wherein said inner cover layer is softer than said outer cover layer.